



Quick starting guide

# | TSS 400 SAT>IP Converter



# Safete instruction

Read the safety instructions carefully before using the converter operating. Follow all warnings and information on the device and in the manual.

## Basic Safety Information

### Electrical Connection

- In case of malfunction, disconnect the converter from the power source.
- To avoid fire hazard and risk of electrical shock, do not expose the converter to rain or moisture
- Never open the housing. There is a danger of electric shock. Connect the converter only to a professionally installed mains socket of 100-240 V, 50-60 Hz.
- Pull out the power plug during a thunderstorm on the converter from the wall outlet. During a thunderstorm, also remove the cable of the LNB from the converter .
- Should any solid object or liquid fall into the converter, unplug the power cord from the outlet. Have the unit checked by qualified personnel before bringing it back into operation. There is a danger of electric shock. Please note that the current source (socket) should be easily accessible.
- Do not bend or crimp the power cord.
- If the power cord is damaged, you have to repair the converter of personnel before they use it again. Otherwise there is a risk of electric shock.
- Never leave children unattended to use the converter, or play with the antenna system .Refer servicing to qualified personnel.
- Obtain replacement parts only from the manufacturer. Changes to the unit will void the warranty.

### Correct location

- Install the converter vertically on a firm, level surface, all connectors looking to the top.
- Intall the converter in an indoor area, protected from water, humity, dirt, heat source
- Avoid the vicinity of:
  - Heat sources such as radiators,
  - Naked flames, such as candles,
  - Devices with strong magnetic fields, such as speakers.
  - Do not place any objects filled with liquids (such as vases) on the receiver.
- Avoid direct sunlight and places with an extremely high amount of dust. Never cover the ventilation holes. Ensure adequate ventilation of the converter.
- Do not place heavy objects on the converter.
- If you take the converter from a cold to a warm environment, low humidity is reflected in the interior of the converter. Wait in this case about an hour before turning it into operation. Keep the power cord and antenna cable so that no one can step on or trip over them.

Correct use: the converter is designed for the reception of free to air digital satellite programs in the private sector. It is intended solely for this purpose and should only be for used. This includes attention to all information of this manual, especially the safety.

Any other use is considered improper and may result in property damage or even personal injury. It also means the immediate loss of warranty.

The manufacturer assumes no liability for any damage caused by improper use.

Check the delivery after purchase.



Pos.	Pcs	Description
1	1	Converter
2	1	Power supply
3	1	Quick starting guide
-	1	User Manual (not shown)

## General

With this SAT>IP converter, you can receive unencrypted (free-to-air) digital satellite (DVB-S and DVB-S2) channels.

Different satellite FTA live channels (DVB-S and DVB-S2) can be sent out to up to 4 connected users simultaneously. Every four connected user can chose what to watch, on the device of their choice anywhere in the house.

A connected user can be:

- An IP Set Top Box (STB) connected on your in-home IP network (RJ-45 cable) and connected to your TV via an HDMI cable
- A Tablet or Smartphone connected wirelessly to your home WLAN router. Therefore, you need a wireless home network with enough bandwidth (100 Megabit/seconds) and an app preinstalled on your wireless device. You should find on the apps store of your wireless device the SAT>IP app making that your Tablet or Smartphone can get and display live TV.

SAT>IP will deliver you linear TV to multiple screen at home. With SAT>IP solution, you will avoid problems of buffering and poor pictures quality as it is a satellite reception with a high bandwidth.

## Network Setting:

### Network Interface:

The default network interface of the SAT>IP converter is utilizing Ethernet network. Users do not need to adjust the setting if the SAT>IP converter is installed in the Ethernet environment.

### IP Settings:

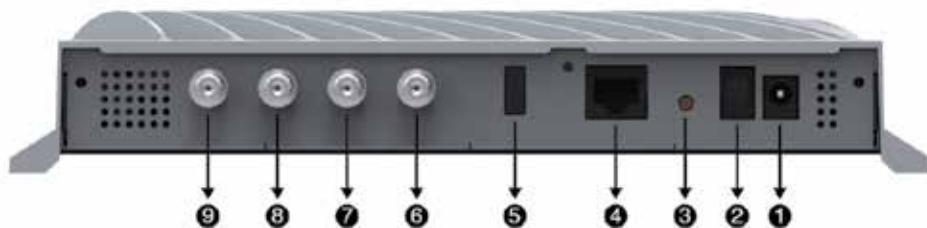
Automatic or Static mode can be chosen by users in the function. The default IP setting is automatic mode. The SAT>IP converter does not include DHCP function, so it needs to be connected to a router or switch with DHCP function. Once the SAT>IP converter is correctly connected to a device with DHCP function, users do not need to adjust the setting.

By default, all IP settings of your SAT>IP converter are in automatic mode making the installation very easy with your router.

# Product description

## Connect your SAT>IP Converter

Converter top side



- ①. DC in (12V / 3A)
- ②. Power Switch On/Off
- ③. Reset to Default Button
- ④. Ethernet (10 / 100 / Giga)
- ⑤. USB 1.1 / 2.0
- ⑥. RF4 (F-type connector, support DVB-S/S2 and 950 ~ 2150MHz), connect to Horizontal High H/H (18V/22KHz) port from Quattro LNB, or any port from Quad LNB.
- ⑦. RF3 (F-type connector, support DVB-S/S2 and 950 ~ 2150MHz), connect to Horizontal Low H/L (18V) port from Quattro LNB, or any port from Quad LNB.
- ⑧. RF2 (F-type connector, support DVB-S/S2 and 950 ~ 2150MHz), connect to Vertical High V/H (13V/22KHz) port from Quattro LNB, or any port from Quad LNB.
- ⑨. RF1 (F-type connector, support DVB-S/S2 and 950 ~ 2150MHz), connect to Vertical Low V/L (13V) port from Quattro LNB, or any port from Quad LNB.

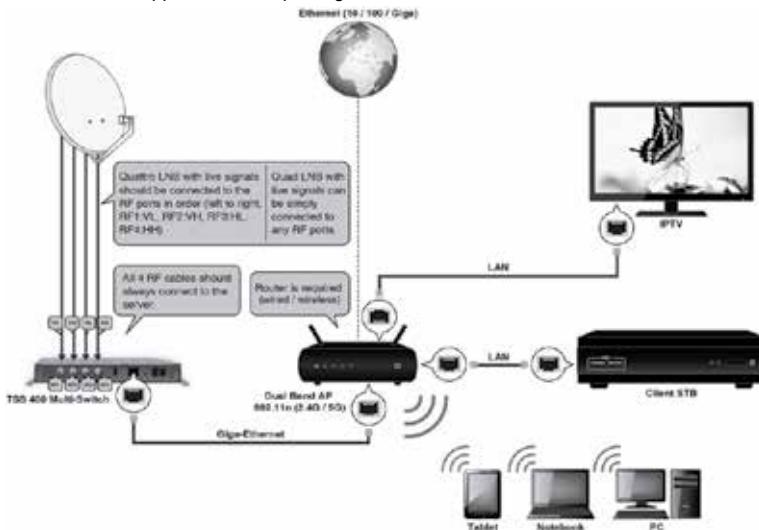
Converter front panel



- ⑩. Power LED (Indicate power on/off)
- ⑪. Streaming LED (Indicate streaming or not)

Connect your converter via a coaxial cable to the antenna LNB and via Network cable to your WLAN router

① All cables are not supplied with this package.



#### Attention!

Connect the converter to the mains when you have connected it to all equipment and the antenna. Otherwise, the converter may be damaged.

The wire mesh and the inner core of the coaxial cable carry current during operation.

Router: in order that you can stream live programs to 4 connected users simultaneously (via RJ-45 or wireless), we recommend you to use a WLAN router with the following specifications:

Minimum Requirements ( 4 Clients)			
	Stand Alone Client Box		iOS Device
Resolution	Wired connection	Wireless connection	Wireless connection
SD resolution	LAN	10/100 Mbps	100/1000 Mbps
	WiFi	-	802.11 n
	Antenna	-	3T 3R
	Data Rate	-	300 Mbps
HD resolution	LAN	100/1000 Mbps	100/1000 Mbps
	WiFi	-	802.11 n
	Antenna	-	3T 3R
	Date Rate	-	300 Mbps

iOS devices (iPad 1-3 and iPhone)  
only supports SD programs reception.

Attention: 2.4 GHz router can be used for data transmission.

For live programs streaming, using 5 GHz router will be strongly recommended.

# Technical data

## Hardware Feature

- Platform: STi7108: 2200 DMIPS
- Flash: 1 MB NOR Flash / 128 MB NAND Flash
- RAM: 512 MB DDR3 1066 Mhz
- Interface:
  - 4 x DVB-S/S2 Tuners/Demodulators
  - 10/100/Gigabit Ethernet
  - USB 2.0 Host for Software Upgrade

## Software Feature

- SAT>IP Control Protocol:
  - Support Both RTSP and HTTP Protocols for Control
  - SAT>IP Protocol Description Version 1.1 Compliant
  - Support RTCP Announcements Control Channel
  - Support Both dynamic and Static Operation for Each Frontend
  - UPnP
- DVB-S/S2 Live Streaming to IP Media Transport
  - Unicast via HTTP 1.0 / 1.1
  - Multicast via UDP / RTP
- Web UI
  - System Configuration and Administration
  - Easy to Manage the Server Remotely via Web UI
  - Access Web UI easily via Browsers in PC
  - Support Software Upgrade via Web UI

## Connectors

4 F connectors

1 Ethernet RJ-45 (10 / 100 / 1000)

1 USB

1 DC IN (power supply)

1 Reset

## LED

Power Led: green power ON, black power OFF

Streaming Led: blue streaming transmitting, black no streaming

## Others

Size: 250 x 126 x 35 mm

Weight: 0.75 Kg

TSS 400, part number 310101, EAN code 5702663101012

Operating temperature: 0 to +40°C



## Your notes



Dear Customer,

Should you require technical assistance in the event that your expert dealer is unable to help you, please contact us on the web at:

<http://www.triax.com> - click **Contact** in the red line - here you can see

- a list of Triax's own offices.
- a list of distributors of Triax products

## DECLARATION OF CONFORMITY

TRIAX confirms that the product conforms to relevant EEC harmonised standards and consequently can carry the CE-mark.

We declare that this product complies with the following standards:

ESD: IEC 61000-4-2

Safety: CE LVD EN 60065 - CE, ErP (EC) n° 1275/2008

EMC: EN55013/20 – EN55022/24

This document is only valid with the signature of the person responsible for CE-marking by Triax

Date: October 2012

Signature: